

Patent Abstracts of Japan

PUBLICATION NUMBER : 63179955
PUBLICATION DATE : 23-07-88

APPLICATION DATE : 22-01-87
APPLICATION NUMBER : 62011291

APPLICANT : ASAHI CHEM IND CO LTD;

INVENTOR : HIRATA AKIRA;

INT.CL. : C08L 53/02 B29C 45/00 B29C 47/00 C08L 23/20 C08L 47/00 C08L 53/02 C08L 77/02
G01K 11/00

TITLE : SHAPE MEMORY RESIN MATERIAL

ABSTRACT : PURPOSE: To obtain the titled material having excellent strength, etc., high shape-restoration characteristics by heat treatment and excellent moldability, by compounding a crystalline block copolymer containing a specific triblock chain or star-structure in a polymer chain with a specific amount of a crystalline polymer having low melting point.

CONSTITUTION: The objective material can be produced by compounding (I) 97~30wt.% crystalline block copolymer containing a triblock chain or star- structure expressed by formula A-B-C (A and C are blocks consisting of homopolymer or copolymer of a vinyl aromatic compound and having a glass transition temperature of $\geq 50^{\circ}\text{C}$ and a weight-average molecular weight of 2,000~100,000; B is a block consisting of homopolymer or copolymer of a conjugated diene compound and having a glass transition temperature of $\leq 10^{\circ}\text{C}$, a weight-average molecular weight of 25,000~1,000,000 and a 1,4-trans-bond content of $\geq 80\%$ in the conjugated diene part) and (II) 3~70% low-melting crystalline polymer having a melting point of $25\text{--}150^{\circ}\text{C}$ and a molecular weight of 500~500,000.

COPYRIGHT: (C)1988,JPO&Japio